TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A'Block,3rdCross, 5th Main,
Sahakarnagar,Bangalore-560092
098869 13195,080236 29195

Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

Test Report of Physical Properties of Cement-53 Grade

IS: 12269-2013, IS: 4031(Part-1,2,3,4,5,6,11)-1988		Date: 02-08-2020
Lab I'd	ISO/IEC17025:2005	
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Project Zone, Bengaluru.	
Consultant	Transheight Consultants Private Limited	
Contractor	D.K Nagaraj (DNK associates)	
Customer Reference	EE (Project)/YNK Zone/WO/11-2/2019-20	
Source of Sample	Sample supplied by Agency	
Sample Condition	Satisfactory	
Date of Reciept	01-08-2020	
Sample Type	Birla Super 53-Grade	
Date of Test	02-08-2020	
Environmental Condition during test	Temperature: 26°C	
	Humidity: 72%	

Test Results

Sl. No	Physical Properties	Result	Requirements as per IS: 12269-2013
1	Finess by dry sieving (%)	1.85	-
2	Finess by Air permiability method (m^2/kg, Min)	293.56 m2	225 m2
3	Specific gravity /Density, (gm/cm)	3.32	-
4	Standard Consistency (%)	30.15%	Not Specified
5	Initial Setting time	137 Min	Not less than 30 minutes
6	Final Setting Time	260 Minutes	Not more than 600 minutes
7	Soudness (Le Chateliers Method)	2.1 mm	Not more than 10 mm

Remarks :

Transheight Consultants Pvt. Ltd. Bangalore PMC

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Client Contractor

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Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

Test Report of Physical Properties of Cement-53 Grade

IS: 12269-2013, IS: 4031(Part-4,6)-1988 | Date: 02-08-2020

Lab Id	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Project Zone, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	D.K Nagaraj (DNK associates)
Customer Reference	EE (Project)/YNK Zone/WO/11-2/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	01-08-2020
Sample Type	Birla Super 53-Grade
Date of Test	02-08-2020
Environmental Condition during test	Temperature: 27°C
	Humidity: 70%

Compressive Strength

Sl. No	Physical Properties	Result	Requirements as per IS: 12269-2013
1	3 Days	28.6 N/mm^2	Not less than 27 N/mm2
2	7 Days	41.3 N/mm^3	Not less than 37 N/mm3
3	28 Days	54.3 N/mm^4	Not less than 53 N/mm4

Remarks :

PMC Client Contractor

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Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

Test Report of Fine Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3)-1963 (Reaffirmed-2012)	Date: 02-08-2020
Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Project Zone, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	D.K Nagaraj (DNK associates)
Customer Reference	EE (Project)/YNK Zone/WO/11-2/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	01-08-2020
Sample Type	Fine Aggregate
Date of Test	02-08-2020
Total wt of the sample (gms):	1000

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per IS: 383-2016			
					Grading Zone-1	Grading Zone-2	Grading Zone-3	Grading Zone-4
10	0	0	0.0	100	100	100	100	100
4.75	35	35	3.5	96.5	90-100	90-100	90-100	95-100
2.36	62	97	9.7	90.3	60-95	75-100	85-100	95-100
1.18	254	351	35.1	64.9	30-70	55-90	75-100	90100
600	214	565	56.5	43.5	15-34	35-59	60-79	80-100
300	208	773	77.3	22.7	5-20	8-30	12-40	15-50
150	183	956	95.6	4.4	0-10	0-10	0-10	0-15
PAN	44	1000	100.0	0.0	-	-	-	-

Result: The Tested Sample Conforms to Grading Zone-II

Transheight Consultants Pvt. Ltd. Bangalore

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Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

Test Report of Fine Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3)-1963 (Reaffirmed-2012)	Date: 02-08-2020
Ref	ISO/IEC17025:2005
nt	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Project Zone, Bengaluru.
ultant	Transheight Consultants Private Limited
ractor	D.K Nagaraj (DNK associates)
mer Reference	EE (Project)/YNK Zone/WO/11-2/2019-20
e of Sample	Sample supplied by Agency
ple Condition	Satisfactory
of Reciept	01-08-2020
ple Type	Fine Aggregate
of Test	02-08-2020

Physical Properties

No	Physical Properties	Result	Requirements as per IS: 386-2016
	Water Absorption (%)	1.70	-
	Specific Gravity	2.25	-
	Material Finer than 75 micron (%)	7.23	Uncrushed fine Aggregate Max 3% Crushed Fine Aggregate Max 15% Mixed Fine Aggregate Max 12% Manufacture Fine Aggregate Max 10%

rks :

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Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03	

Test Report of Coarse Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3 & 4)-1963 (Reaffirmed-2012)	Date: 02-08-2020
Lab Ref	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Project Zone, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	D.K Nagaraj (DNK associates)
Customer Reference	EE (Project)/YNK Zone/WO/11-2/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	01-08-2020
Sample Type	Coarse Aggregate
Date of Test	02-08-2020

Sieve Analysis (Particle Size Distribution) of 20mm Down Coarse Aggregate

Total wt of the sample (gms):			5000		
IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per IS: 383-2016
40	0	0	0.0	100	100
20	255	255	5.1	94.9	90-100
10	2445	2700	54.0	46.0	20-55
4.75	2232	4932	98.6	1.4	0-10
PAN	68	5000	100.0	0.0	-

Remarks :

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Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

Test Report of Coarse Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3)-1963 (Reaffirmed-2012)	Date: 02-08-2020
Ref	ISO/IEC17025:2005
	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Project Zone, Bengaluru.
Client	Transheight Consultants Private Limited
Contractor	D.K Nagaraj (DNK associates)
Letter Reference	EE (Project)/YNK Zone/WO/11-2/2019-20
Type of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	01-08-2020
Sample Type	Coarse Aggregate
Date of Test	02-08-2020

Physical Properties

Sl. No.	Physical Properties	Result	Requirements as per IS: 386-2016
1	Flakines Index (%)	16.15	Combined Flakiness and Elongation Index ahall nor exceed 40% for uncrushed and crushed aggregate
2	Elongation Index (%)	14.52	
3	Specific Gravity	2.35	-
4	Bulk Density (Loose) (Kg/l)	1.63	-
5	Bulk Density (Composed) (Kg/l)	1.55	-
6	Water Absorption (%)	0.23	-
7	Aggregate Crushing Value (%)	22.45	Max 30% for Aggregates to be used in concrete for wearing surfaces, In case aggregate Crushing Value exceeds 30% then the test for 10% fines should be conducted for aggregate to be used in concrete oter tha for wearing surfaces
8	Aggregate Impact Value (%)	22.12	Max 30% for aggregate to be used in concrete for wearing surfaces, 45% for aggregate to be used in concrete other than for wearing surface.

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Name of work: Improvements to Roads and drains at bhadrappa layout and balaji layout and surrounding area in ward number - 08 .

Test Report of Coarse Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3)-1963 (Reaffirmed-2012)	Date: 02-08-2020
Ref	ISO/IEC17025:2005
	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Project Zone, Bengaluru.
ultant:	Transheight Consultants Private Limited
actor	D.K Nagaraj (DNK associates)
ner Reference	EE (Project)/YNK Zone/WO/11-2/2019-20
e Condition	Satisfactory
of Receipt	01-08-2020
e Type	Coarse Aggregate
of Test	02-08-2020

Physical Properties

Sl no	Physical Properties	Result	Requirements as per IS: 386-2016
	Flakines Index (%)	11.22	Combined Flakiness and Elongation Index ahall nor exceed 40% for uncrushed and crushed aggregate
	Elongation Index (%)	12.56	
	Specific Gravity	2.35	-
	Bulk Density (Loose) (Kg/l)	1.56	-
	Bulk Density (Composed) (Kg/l)	1.35	-
	Water Absorption (%)	0.85	-

Note :

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Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 23/09/2020
	ISO/IEC17025:2005
	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Project Zone, Bengaluru.
	Transheight Consultants Private Limited
	D.K Nagaraj (DNK associates)
	EE (Project)/YNK Zone/WO/11-2/2019-20
	Sample supplied by Agency
	Satisfactory
	16-09-2020
	Vidhanasaudha Grill Posts
	150x150x150 mm
	M20/ 7 Days Compressive Strength
	23-09-2020

Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
				mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
Vidhanasaudha Grill Posts	M20	16-09-2020	23-09-2020	150x150x150	22500	9.05	392.8	17.5	17.02
Vidhanasaudha Grill Posts	M20	16-09-2020	23-09-2020	150x150x150	22500	8.482	376	16.7	
Vidhanasaudha Grill Posts	M20	16-09-2020	23-09-2020	150x150x150	22500	8.809	380.2	16.9	

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Name of Work: **Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03**

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 14-10-2020
ISO/IEC17025:2005	
Bruhat Bengalore Mahanagara Palike (BBMP) ,Yelahanka Project Zone, Bengaluru.	
Transheight Consultants Private Limited	
D.K Nagaraj (DNK associates)	
EE (Project)/YNK Zone/WO/11-2/2019-20	
Sample supplied by Agency	
Satisfactory	
16-09-2020	
Vidhanasaudha Grill Posts	
150x150x150 mm	
M20/ 28 Days Compressive Strength	
14-10-2020	

Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
				mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
Vidhanasudha Grill Posts	M20	16-09-2020	14-10-2020	150x150x150	22500	8.425	510.2	22.7	22.71
Vidhanasudha Grill Posts	M20	16-09-2020	14-10-2020	150x150x150	22500	8.461	513	22.8	
Vidhanasudha Grill Posts	M20	16-09-2020	14-10-2020	150x150x150	22500	8.895	509.8	22.7	

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Name of Work: **Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03**

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 23/09/2020
	ISO/IEC17025:2005
	Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Project Zone, Bengaluru.
	Transheight Consultants Private Limited
	D.K Nagaraj (DNK associates)
	EE (Project)/YNK Zone/WO/11-2/2019-20
	Sample supplied by Agency
	Satisfactory
	16-09-2020
	Vidhanasaudha Grill Posts
	150x150x150 mm
	M20/ 7 Days Compressive Strength
	23-09-2020

Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
				mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
Vidhanasaudha Grill Posts	M20	16-09-2020	23-09-2020	150x150x150	22500	8.72	385.15	17.1	17.03
Vidhanasaudha Grill Posts	M20	16-09-2020	23-09-2020	150x150x150	22500	8.56	379.25	16.9	
Vidhanasaudha Grill Posts	M20	16-09-2020	23-09-2020	150x150x150	22500	8.81	385.35	17.1	

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Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 14-10-2020
	ISO/IEC17025:2005
	Bruhat Bengalore Mahanagara Palike (BBMP) ,Yelahanka Project Zone, Bengaluru.
	Transheight Consultants Private Limited
	D.K Nagaraj (DNK associates)
	EE (Project)/YNK Zone/WO/11-2/2019-20
	Sample supplied by Agency
	Satisfactory
	16-09-2020
	Vidhanasaudha Grill Posts
	150x150x150 mm
	M20/ 28 Days Compressive Strength
	14-10-2020

Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
				mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
Vidhanasaudha Grill Posts	M20	16-09-2020	14-10-2020	150x150x150	22500	8.67	509.36	22.6	22.59
Vidhanasaudha Grill Posts	M20	16-09-2020	14-10-2020	150x150x150	22500	8.75	511.45	22.7	
Vidhanasaudha Grill Posts	M20	16-09-2020	14-10-2020	150x150x150	22500	8.52	504.25	22.4	

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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 02/10/2020
ISO/IEC17025:2005	
Bruhat Bengalore Mahanagara Palike (BBMP) , Yelahanka Project Zone, Bengaluru.	
Transheight Consultants Private Limited	
D.K Nagaraj (DNK associates)	
EE (Project)/YNK Zone/WO/11-2/2019-20	
Sample supplied by Agency	
Satisfactory	
25-09-2020	
Vidhanasaudha Grill Posts	
150x150x150 mm	
M20/ 7 Days Compressive Strength	
02/10/2020	

Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
				mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
Vidhanasaudha Grill Posts	M20	25-09-2020	02/10/2020	150x150x150	22500	8.55	385.63	17.1	17.13
Vidhanasaudha Grill Posts	M20	25-09-2020	02/10/2020	150x150x150	22500	8.62	382.65	17.0	
Vidhanasaudha Grill Posts	M20	25-09-2020	02/10/2020	150x150x150	22500	8.47	388.15	17.3	

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Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 23-10-2020
Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) ,Yelahanka Project Zone, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	D.K Nagaraj (DNK associates)
Customer Reference	EE (Project)/YNK Zone/WO/11-2/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	25-09-2020
Sample Type	Vidhanasaudha Grill Posts
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M20/ 28 Days Compressive Strength
Date of Test	23-10-2020

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Vidhanasaudha Grill Posts	M20	25-09-2020	23-10-2020	150x150x150	22500	8.62	505.65	22.5	22.39
2	Vidhanasaudha Grill Posts	M20	25-09-2020	23-10-2020	150x150x150	22500	8.76	502.45	22.3	
3	Vidhanasaudha Grill Posts	M20	25-09-2020	23-10-2020	150x150x150	22500	8.61	503.16	22.4	

Result:

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